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EFFICACY REVIEW

DATE: IN 9-26-01 OUT 11-29-01

FILE OR REG. NO. 68543-15

PETITION OR EXP. PERMIT NO. _____

DATE DIV. RECEIVED August 3, 2001

DATE OF SUBMISSION July 27, 2001

DATE SUBMISSION ACCEPTED _____

TYPE PRODUCT(S): (I,)D, H, F, N, R, S _____

DATA ACCESSION NO(S). None; D278101; S603802; Case# 060595; AC:306

PRODUCT MGR. NO. 03-Layne/Gebken

PRODUCT NAME(S) Bengal UltraDust Insecticide

COMPANY NAME Bengal Chemical, Incorporated

SUBMISSION PURPOSE Provide information in the form of references
to performance data in support of claims for
imported fire ant control by mound application.

CHEMICAL & FORMULATION Deltamethrin: (S)- α -cyano-3-phenoxybenzyl-
(1R,3R)-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropanecarboxylate
0.05%
(ready-to-use dust, bulk density unavailable)

CONCLUSIONS & RECOMMENDATIONS The data presented in EPA Accession
(MRID) Number 453519-01, having been obtained from standard field
testing meeting the requirements of § 95-3(c)(1) and (2)(i), and
the standard of § 95-3(c)(3)(i) at least initially, both on p. 245
of the Product Performance Guidelines, are adequate to demonstrate
the ability of the subject product to kill red imported fire ant,
Solenopsis invicta, when applied according to label rates and di-
rections for mound application, as indicated by lack of activity
in 11 of 16 treated mounds 4 hours after application, 13 of 16 at
24 hours after application, and total lack of activity in all 16
mounds 48 hours after application. The technical director states
in the Executive Summary that "All mounds were effectively neutral-
ized in 24 hours." However, since § 95-3(c)(1) requires at least
90% control 30 days after mound treatment and observations were not
carried out beyond 2 days, these data are not adequate to support
a control claim at the present. We have accepted data for a dust
formulation in MRID No. 435307-01 submitted in support of mound
control of red imported fire ant for EPA Reg. No. (to be continued)

432-772, "K-OTHRINE® Dust Insecticide", q.v., in which observations were carried out for 28 days after treatment, at which time there was no activity noted in any of the 10 mounds treated by shaking the dust over the mound as stated on the label directions for that product, which are identical to those on the subject product label. Therefore, we anticipate that the registrant would find a similar lack of activity if treated mounds were to be examined 30 days after application. Nevertheless, this observation is required by the Guidelines in order to support a control claim by mound application.

RL Vern L. McFarland, IB